

# PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE


Docket No.: SCHREPFER

In re Application of:	)	
ARMIN SCHREPFER	)	
Appl. No.: 10/599,674	)	
Int. Appl. No.: PCT/EP2005/051502	)	Confirmation No.: 2702
Filed: October 5, 2006	)	
For: COMPENSATION METHOD AND APPARATUS FOR PREVENTING DAMAGING BEARING CURRENTS IN AN ELECTRICAL MACHINE	)	

## INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

S I R:

CERTIFICATION OF EFS-WEB TRANSMISSION	
I hereby certify that this paper is being EFS-Web transmitted to the U.S. Patent and Trademark Office, Alexandria VA 22313-1450, on <u>July 10, 2007</u> .	
	Date
<u>Henry M. Feiereisen</u>	
(Name of Registered Representative)	
	
(Signature)	<u>7-10-2007</u>
	(Date of Signature)

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of the Examiner to the references listed on enclosed form PTO-1449 which were cited in the specification, in the International Search Report issued by the European Patent Office with regard to the corresponding International patent application No. PCT/EP2005/051502 and in a German Office Action issued by the German Patent Office with regard to the corresponding German patent application No. 10 2004 016 738.9, respectively. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

Copies of these references are submitted herewith along with form PTO-1449. **Please note that the publication date of all references is listed as "DD-MM-YYYY".** The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report. In addition, applicant notes with respect to any information that is not in English language as follows:

European Patent Appl. No. EP 1 445 850 which has been listed in the International Search Report is not available as prior art in the U.S., since its publication date is not more than one year prior to the international filing date of above referenced international patent application. This reference corresponds to U.S. Publ. No. 2004/0189115.

With respect to European Patent No. EP 0 271 678, an English-language Abstract is enclosed. This reference corresponds to U.S. Pat. No. 4,831,295.

Please note that pages 21-31 of the article by S. Chen, T.A. Lipo, D. Fitzgerald, "Modeling of Bearing Currents in Inverter Drives", which is cited in the specification, filed on October 5, 2006 have not been made available as of yet. This publication describes the formation of damaging bearing currents as lubricating film in the roller bearing can provide isolation only for a specific voltage, and then breaks down.

The above-identified application discloses and claims an invention patentable over this prior art.

Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

Respectfully submitted

By: 

Henry M. Feiereisen  
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

**Complete If Known**

Application Number	10/599,674
Filing Date	10/05/2006
First Named Inventor	Armin Schrepfer
Art Unit	
Examiner Name	
Attorney Docket Number	

**SCHREPFER****U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>5</sup> (if known)			
		2004/0189115	30.09.2004	AB SKP	
		US-			
		US-			
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>5</sup> (if known)				
	1.	JP 10 014159 A	16.01.1998	Matsushita Seiko Co. Ltd.		
	2.	WO 2004/001927 A2	31.12.2003	International Rectifier Corp.		
	3.	EP 0 271 878 B1 (= US 4 831 285 A)	22.01.1992	BBC AG		
	4.	JP 60096150	29.05.1985	Nishishiba Denki KK		

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued cited document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public who is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

2

9

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Attorney Docket Number

**Complete if Known**

Application Number	10/599.674
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Filing Date	10/05/2006
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First Named Inventor	Armin Schrepfer
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Group Art Unit

Examiner Name \_\_\_\_\_

Examiner Name	
Attorney Docket Number	SCHREPFER

## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached

The collection of information is required by 37 CFR 1.68. The information is required to obtain or retain a benefit by the public; which is to file (and, in the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Department of Commerce, P.O. Box 1450, Alexandria, VA 22314-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22314-1450

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## INTERNATIONAL SEARCH REPORT

 International Application No.  
 PCT/EP2005/051502

 A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H02K11/00

CORRECTED VERSION

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPD-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 05, 30 April 1998 (1998-04-30) - & JP 10 014159 A (MATSUSHITA SEIKO CO LTD), 16 January 1998 (1998-01-16) abstract  ----- -/--	1,10,16

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

 "A" document defining the general state of the art which is not  
 considered to be of particular relevance

 "E" earlier document but published on or after the international  
 filing date

 "L" document which may throw doubts on priority claim(s) or  
 which is cited to establish the publication date of another  
 citation or other special reason (as specified)

 "O" document relating to an oral disclosure, use, exhibition or  
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 "P" document published prior to the international filing date but  
 later than the priority date claimed

 "T" later document published after the international filing date  
 or priority date and not in conflict with the application but  
 cited to understand the principle or theory underlying the  
 invention

 "X" document of particular relevance; the claimed invention  
 cannot be considered novel or cannot be considered to  
 involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention  
 cannot be considered to involve an inventive step when the  
 document is combined with one or more other such docu-  
 ments, such combination being obvious to a person skilled  
 in the art

"Z" document member of the same patent family

Date of the actual completion of the international search

5 July 2005

Date of mailing of the international search report

 Name and mailing address of the ISA  
 European Patent Office, P.B. 6818 Patentleer 2  
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Authorized officer

Roy, C

## INTERNATIONAL SEARCH REPORT

International Application No.

P EP2005/051502

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CHENGGANG MEI ET AL: "Minimization and cancellation of common-mode currents, shaft voltages and bearing currents for induction motor drives" PESC'03. 2003 IEEE 34TH, ANNUAL POWER ELECTRONICS SPECIALISTS CONFERENCE. CONFERENCE PROCEEDINGS. ACAPULCO, MEXICO, JUNE 15 - 19, 2003, ANNUAL POWER ELECTRONICS SPECIALISTS CONFERENCE, NEW YORK, NY : IEEE, US. vol. VOL. 4 OF 4. CONF. 34. 15 June 2003 (2003-06-15), pages 1127-1132, XP010647631 ISBN: 0-7803-7754-0 figures 4-6	1,10,16
A	PATENT ABSTRACTS OF JAPAN vol. 009, no. 244 (E-346), 30 September 1985 (1985-09-30) - & JP 60 096150 A (NISHISHIBA DENKI KK), 29 May 1985 (1985-05-29) abstract	1
P,X	EP 1 445 850 A (AB SKF) 11 August 2004 (2004-08-11) figure 1	1-3, 6-11, 13-15

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

P EP2005/051502

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 10014159	A	16-01-1998	NONE
JP 60096150	A	29-05-1985	NONE
EP 1445850	A	11-08-2004	
		DE 20301956 U1	17-05-2004
		BR 0400479 A	24-05-2005
		CA 2455198 A1	07-08-2004
		CN 1531158 A	22-09-2004
		EP 1445850 A1	11-08-2004
		HU 0400111 A2	28-01-2005
		JP 2004242496 A	25-08-2004
		PL 364840 A1	09-08-2004
		US 2004189115 A1	30-09-2004